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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/905,589

DATE: 01/23/2002
TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09905589.raw
Output Set: N:\CRF3\01232002\I905589.raw

1 <110> APPLICANT: Chadwick, Brian Paul
2 Frischauf, Anna-Maria
3 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO CD39-LIKE
4 POLYPEPTIDES AND NUCLEIC ACIDS
5 <130> FILE REFERENCE: 9598-066
6 <140> CURRENT APPLICATION NUMBER: 09/905,589
7 <141> CURRENT FILING DATE: 2001-07-13
9 <150> PRIOR APPLICATION NUMBER: US/09/240,639
10 <151> PRIOR FILING DATE: 1998-01-29
13 <160> NUMBER OF SEQ ID NOS: 29
14 <170> SOFTWARE: PatentIn Ver. 2.0

16 <210> SEQ ID NO: 1
17 <211> LENGTH: 2762
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
20 <220> FEATURE:
21 <221> NAME/KEY: CDS
22 <222> LOCATION: (232)..(1599)
23 <400> SEQUENCE: 1

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gcgcggtgca tggaatgggc tatgtgaatg aaaaaaggta tccgttatga aacttccaga 180
aaaacgagct acattttca gcagccgcag cacggtcctt ggcaaacaag g atg aga 237
Met Arg
1
29
30 aaa ata tcc aac cac ggg agc ctg cgg gtg gcg aag gtg gca tac ccc 285
31 Lys Ile Ser Asn His Gly Ser Leu Arg Val Ala Lys Val Ala Tyr Pro
32 5 10 15
33 ctg ggg ctg tgt gtg ggc gtg ttc atc tat gtt gcc tac atc aag tgg 333
34 Leu Gly Leu Cys Val Gly Val Phe Ile Tyr Val Ala Tyr Ile Lys Trp
35 20 25 30
36 cac cgg gcc acc gcc acc cag gcc ttc ttc agc atc acc agg gca gcc 381
37 His Arg Ala Thr Ala Thr Gln Ala Phe Phe Ser Ile Thr Arg Ala Ala
38 35 40 45 50
39 ccg ggg gcc cgg tgg ggt cag cag gcc cac agc ccc ctg ggg aca gct 429
40 Pro Gly Ala Arg Trp Gly Gln Gln Ala His Ser Pro Leu Gly Thr Ala
41 55 60 65
42 gca gac ggg cac gag gtc ttc tac ggg atc atg ttt gat gca gga agc 477
43 Ala Asp Gly His Glu Val Phe Tyr Gly Ile Met Phe Asp Ala Gly Ser
44 70 75 80
45 act ggc acc cga gta cac gtc ttc cag ttc acc cgg ccc ccc aga gaa 525
46 Thr Gly Thr Arg Val His Val Phe Gln Phe Thr Arg Pro Pro Arg Glu
47 85 90 95

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48	act ccc acg tta acc cac gaa acc ttc aaa gca gtg aag cca ggt ctt	573
49	Thr Pro Thr Leu Thr His Glu Thr Phe Lys Ala Val Lys Pro Gly Leu	
50	100 105 110	
51	tct gcc tat gct gat gat gtt gaa aag agc gct cag gga atc cgg gaa	621
52	Ser Ala Tyr Ala Asp Asp Val Glu Lys Ser Ala Gln Gly Ile Arg Glu	
53	115 120 125 130	
54	cta ctg gat gtt gct aaa cag gac att ccg ttc gac ttc tgg aag gcc	669
55	Leu Leu Asp Val Ala Lys Gln Asp Ile Pro Phe Asp Phe Trp Lys Ala	
56	135 140 145	
57	acc cct ctg gtc ctc aag gcc aca gct ggc tta cgc ctg tta cct gga	717
58	Thr Pro Leu Val Leu Lys Ala Thr Ala Gly Leu Arg Leu Leu Pro Gly	
59	150 155 160	
60	gaa aag gcc cag aag tta ctg cag aag gtg aaa gaa gta ttt aaa gca	765
61	Glu Lys Ala Gln Lys Leu Leu Gln Lys Val Lys Glu Val Phe Lys Ala	
62	165 170 175	
63	tcg cct ttc ctt gta ggg gat gac tgt gtt tcc atc atg aac gga aca	813
64	Ser Pro Phe Leu Val Gly Asp Asp Cys Val Ser Ile Met Asn Gly Thr	
65	180 185 190	
66	gat gaa ggc gtt tcg gcg tgg atc acc atc aac ttc ctg aca ggc agc	861
67	Asp Glu Gly Val Ser Ala Trp Ile Thr Ile Asn Phe Leu Thr Gly Ser	
68	195 200 205 210	
69	ttg aaa act cca gga ggg agc agc gtg ggc atg ctg gac ttg ggc gga	909
70	Leu Lys Thr Pro Gly Gly Ser Ser Val Gly Met Leu Asp Leu Gly Gly	
71	215 220 225	
72	gga tcc act cag atc gcc ttc ctg cca cgc gtg gag ggc acc ctg cag	957
73	Gly Ser Thr Gln Ile Ala Phe Leu Pro Arg Val Glu Gly Thr Leu Gln	
74	230 235 240	
75	gcc tcc cca ccc ggc tac ctg acg gca ctg cgg atg ttt aac agg acc	1005
76	Ala Ser Pro Pro Gly Tyr Leu Thr Ala Leu Arg Met Phe Asn Arg Thr	
77	245 250 255	
78	tac aag ctc tat tcc tac agc tac ctc ggg ctc ggg ctg atg tcg gca	1053
79	Tyr Lys Leu Tyr Ser Tyr Ser Tyr Leu Gly Leu Gly Leu Met Ser Ala	
80	260 265 270	
81	cgc ctg gcg atc ctg ggc ggc gtg gag ggg cag cct gct aag gat gga	1101
82	Arg Leu Ala Ile Leu Gly Gly Val Glu Gly Gln Pro Ala Lys Asp Gly	
83	275 280 285 290	
84	aag gag ttg gtc agc cct tgc ttg tct ccc agt ttc aaa gga gag tgg	1149
85	Lys Glu Leu Val Ser Pro Cys Leu Ser Pro Ser Phe Lys Gly Glu Trp	
86	295 300 305	
87	gaa cac gca gaa gtc acg tac agg gtt tca ggg cag aaa gca gcg gca	1197
88	Glu His Ala Glu Val Thr Tyr Arg Val Ser Gly Gln Lys Ala Ala Ala	
89	310 315 320	
90	agc ctg cac gag ctg tgt gct gcc aga gtg tca gag gtc ctt caa aac	1245
91	Ser Leu His Glu Leu Cys Ala Ala Arg Val Ser Glu Val Leu Gln Asn	
92	325 330 335	
93	aga gtg cac agg acg gag gaa gtg aag cat gtg gac ttc tat gct ttc	1293
94	Arg Val His Arg Thr Glu Glu Val Lys His Val Asp Phe Tyr Ala Phe	
95	340 345 350	
96	tcc tac tat tac gac ctt gca gct ggt gtg ggc ctc ata gat gcg gag	1341

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97	Ser Tyr Tyr Tyr Asp Leu Ala Ala Gly Val Gly Leu Ile Asp Ala Glu	
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99	aag gga ggc agc ctg gtg gtt ggg gac ttc gag atc gca gcc aag tac	1389
100	Lys Gly Gly Ser Leu Val Val Gly Asp Phe Glu Ile Ala Ala Lys Tyr	
101	375 380 385	
102	gtg tgt cgg acc ctg gag aca cag ccg cag agc agc ccc ttc tca tgc	1437
103	Val Cys Arg Thr Leu Glu Thr Gln Pro Gln Ser Ser Pro Phe Ser Cys	
104	390 395 400	
105	atg gac ctc acc tac gtc agc ctg cta ctc cag gag ttc ggc ttt ccc	1485
106	Met Asp Leu Thr Tyr Val Ser Leu Leu Gln Glu Phe Gly Phe Pro	
107	405 410 415	
108	agg agc aaa gtg ctg aag ctc act cggtt aaa att gag aat gtt gag acc	1533
109	Arg Ser Lys Val Leu Lys Leu Thr Arg Lys Ile Asp Asn Val Glu Thr	
110	420 425 430	
111	agc tgg gct ctg ggg gcc att ttt cat tac atc gac tcc ctg aac aga	1581
112	Ser Trp Ala Leu Gly Ala Ile Phe His Tyr Ile Asp Ser Leu Asn Arg	
113	435 440 445 450	
114	cag aag agt cca gcc tca tagtggccga gccatccctg tccccgtcag	1629
115	Gln Lys Ser Pro Ala Ser	
116	455	
117	cagtgtctgt gtgtctgcattaaacccttcgttgcacttcatc ctgaggagcc 1689	
118	acagcacagg ccgtgtggc actttctgca cactggctct gggacttgca gaaggcctgg 1749	
119	tgtctccctg gcatcagcct cttccagtcacatctggca gagggtctgtc tggacctggg 1809	
120	ccctgtctcaa tgccacctgt ctgcctggc tccaagtggg caggaccagg acagaaccac 1869	
121	aggcacacac tgaggggca gtgtggctcc ctgcctgtcc catccccatg ccccgccgc 1929	
122	ggggctgtgg ctgctgtgt gcatgtccct gcgtatggag tcttgtctcc cagcctgtca 1989	
123	gtttctccc cagggcagag cttcccttcc tgcaagagtc tgggaggcgg tgcaggctgt 2049	
124	cctggctgtct ctggggaaagc cgagggacag ccataacacc cccgggacag taggtctggg 2109	
125	cggcaccact gggactctg gacttgagtg tgtttctct tccttggta tgaatgtgt 2169	
126	agttcaccca gaggctgtct cttccacac attgtgttgt ttggggtaa tggatggaggg 2229	
127	agacacccctt tcatagacgg caggtgcccac ctttcaggg agtctccca catggcgg 2289	
128	tgccggcat gagctgtgt aaactatattt tggctgtgtct gcttgagtga cgtctctgtc 2349	
129	gtgtgggtgc caagtgttg ttagaaaact gtgttcttag ccccttttc tggacaccaa 2409	
130	ctgtgtctgt tgaatgtatc gctactgtga gctgttcccg cctagccagg gccatgtctt 2469	
131	aggcagct gtgccacgg tcaagctgac cacatccca gaaccaagct ctcgggtgtct 2529	
132	cggccacca tccgcccacc tcgggtgtac cccacccctt ccatggacag tggatggccc 2589	
133	ggggccgtgca ttctgtcag tggcggtca gtgtcggttgc tgagccctt gagctgttcc 2649	
134	agtgaatgtt cagtgcccg cacgagctga acctcatgtt ttccactccc aataaaaggt 2709	
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138	<211> LENGTH: 456	
139	<212> TYPE: PRT	
140	<213> ORGANISM: Homo sapiens	
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144	Tyr Pro Leu Gly Leu Cys Val Gly Val Phe Ile Tyr Val Ala Tyr Ile	
145	20 25 30	
146	Lys Trp His Arg Ala Thr Ala Thr Gln Ala Phe Phe Ser Ile Thr Arg	

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147	35	40	45	
148	Ala Ala Pro Gly Ala Arg Trp Gly Gln Gln Ala His Ser Pro Leu Gly			
149	50	55	60	
150	Thr Ala Ala Asp Gly His Glu Val Phe Tyr Gly Ile Met Phe Asp Ala			
151	65	70	75	80
152	Gly Ser Thr Gly Thr Arg Val His Val Phe Gln Phe Thr Arg Pro Pro			
153	85	90	95	
154	Arg Glu Thr Pro Thr Leu Thr His Glu Thr Phe Lys Ala Val Lys Pro			
155	100	105	110	
156	Gly Leu Ser Ala Tyr Ala Asp Asp Val Glu Lys Ser Ala Gln Gly Ile			
157	115	120	125	
158	Arg Glu Leu Leu Asp Val Ala Lys Gln Asp Ile Pro Phe Asp Phe Trp			
159	130	135	140	
160	Lys Ala Thr Pro Leu Val Leu Lys Ala Thr Ala Gly Leu Arg Leu Leu			
161	145	150	155	160
162	Pro Gly Glu Lys Ala Gln Lys Leu Leu Gln Lys Val Lys Glu Val Phe			
163	165	170	175	
164	Lys Ala Ser Pro Phe Leu Val Gly Asp Asp Cys Val Ser Ile Met Asn			
165	180	185	190	
166	Gly Thr Asp Glu Gly Val Ser Ala Trp Ile Thr Ile Asn Phe Leu Thr			
167	195	200	205	
168	Gly Ser Leu Lys Thr Pro Gly Gly Ser Ser Val Gly Met Leu Asp Leu			
169	210	215	220	
170	Gly Gly Gly Ser Thr Gln Ile Ala Phe Leu Pro Arg Val Glu Gly Thr			
171	225	230	235	240
172	Leu Gln Ala Ser Pro Pro Gly Tyr Leu Thr Ala Leu Arg Met Phe Asn			
173	245	250	255	
174	Arg Thr Tyr Lys Leu Tyr Ser Tyr Ser Tyr Leu Gly Leu Gly Leu Met			
175	260	265	270	
176	Ser Ala Arg Leu Ala Ile Leu Gly Gly Val Glu Gly Gln Pro Ala Lys			
177	275	280	285	
178	Asp Gly Lys Glu Leu Val Ser Pro Cys Leu Ser Pro Ser Phe Lys Gly			
179	290	295	300	
180	Glu Trp Glu His Ala Glu Val Thr Tyr Arg Val Ser Gly Gln Lys Ala			
181	305	310	315	320
182	Ala Ala Ser Leu His Glu Leu Cys Ala Ala Arg Val Ser Glu Val Leu			
183	325	330	335	
184	Gln Asn Arg Val His Arg Thr Glu Glu Val Lys His Val Asp Phe Tyr			
185	340	345	350	
186	Ala Phe Ser Tyr Tyr Asp Leu Ala Ala Gly Val Gly Leu Ile Asp			
187	355	360	365	
188	Ala Glu Lys Gly Gly Ser Leu Val Val Gly Asp Phe Glu Ile Ala Ala			
189	370	375	380	
190	Lys Tyr Val Cys Arg Thr Leu Glu Thr Gln Pro Gln Ser Ser Pro Phe			
191	385	390	395	400
192	Ser Cys Met Asp Leu Thr Tyr Val Ser Leu Leu Leu Gln Glu Phe Gly			
193	405	410	415	
194	Phe Pro Arg Ser Lys Val Leu Lys Leu Thr Arg Lys Ile Asp Asn Val			
195	420	425	430	

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196 Glu Thr Ser Trp Ala Leu Gly Ala Ile Phe His Tyr Ile Asp Ser Leu
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 198 Asn Arg Gln Lys Ser Pro Ala Ser
 199 450 455
 201 <210> SEQ ID NO: 3
 202 <211> LENGTH: 2797
 203 <212> TYPE: DNA
 204 <213> ORGANISM: Homo sapiens
 205 <220> FEATURE:
 206 <221> NAME/KEY: CDS
 207 <222> LOCATION: (83)..(1669)
 208 <400> SEQUENCE: 3
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 211 Met Phe Thr Val Leu Thr Arg Gln Pro Cys
 212 1 5 10
 213 gag caa gca ggc ctc aag gcc ctc tac cga act cca acc atc att gcc 160
 214 Glu Gln Ala Gly Leu Lys Ala Leu Tyr Arg Thr Pro Thr Ile Ile Ala
 215 15 20 25
 216 ttg gtg gtc ttg ctt gtg agt att gtg gta ctt gtg agt atc act gtc 208
 217 Leu Val Val Leu Val Ser Ile Val Val Leu Val Ser Ile Thr Val
 218 30 35 40
 219 atc cag atc cac aag caa gag gtc ctc cct cca gga ctg aag tat ggt 256
 220 Ile Gln Ile His Lys Gln Glu Val Leu Pro Pro Gly Leu Lys Tyr Gly
 221 45 50 55
 222 att gtg ctg gat gcc ggg tct tca aga acc aca gtc tac gtg tat caa 304
 223 Ile Val Leu Asp Ala Gly Ser Ser Arg Thr Thr Val Tyr Val Tyr Gln
 224 60 65 70
 225 tgg cca gca gaa aaa gag aat aat acc gga gtg gtc agt caa acc ttc 352
 226 Trp Pro Ala Glu Lys Glu Asn Asn Thr Gly Val Val Ser Gln Thr Phe
 227 75 80 85 90
 228 aaa tgt agt gtg aaa ggc tct gga atc tcc agc tat gga aat aac ccc 400
 229 Lys Cys Ser Val Lys Gly Ser Gly Ile Ser Ser Tyr Gly Asn Asn Pro
 230 95 100 105
 231 caa gat gtc ccc aga gcc ttt gag gag tgt atg caa aaa gtc aag ggg 448
 232 Gln Asp Val Pro Arg Ala Phe Glu Glu Cys Met Gln Lys Val Lys Gly
 233 110 115 120
 234 cag gtt cca tcc cac ctc cac gga tcc acc ccc att cac ctg gga gcc 496
 235 Gln Val Pro Ser His Leu His Gly Ser Thr Pro Ile His Leu Gly Ala
 236 125 130 135
 237 acg gct ggg atg cgc ttg ctg agg ttg caa aat gaa aca gca gct aat 544
 238 Thr Ala Gly Met Arg Leu Leu Arg Leu Gln Asn Glu Thr Ala Ala Asn
 239 140 145 150
 240 gaa gtc ctt gaa agc atc caa agc tac ttc aag tcc cag ccc ttt gac 592
 241 Glu Val Leu Glu Ser Ile Gln Ser Tyr Phe Lys Ser Gln Pro Phe Asp
 242 155 160 165 170
 243 ttt agg ggt gct caa atc att tct ggg caa gaa gaa ggg gta tat gga 640
 244 Phe Arg Gly Ala Gln Ile Ile Ser Gly Gln Glu Glu Gly Val Tyr Gly
 245 175 180 185

VERIFICATION SUMMARY
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